

METHOD, SYSTEM, AND PROGRAM FOR FRACTIONALLY  
SHIFTING DATA SUBJECT TO A PREVIOUS TRANSFORMATION

ABSTRACT

Provided are a method, system and program for fractionally shifting input data  
5 subject to a first transform process without first applying an inverse transformation  
by using a second transform process. The second transform process applies a  
transformed matrix to the transformed data. At least one transformed matrix is  
provided in non-volatile storage, wherein each transformed matrix is generated by  
applying the first transform process to a fractional shift matrix operator. The input  
10 data that was transformed using the first transform process is received and the at least  
one transformed matrix is applied to the transformed input data to generate  
transformed data that represents fractionally shifted transformed output data.